



Geometry

Grade 4

Angles and triangles

Right, acute and obtuse angles, and the three ways to sort a triangle by its sides.

WHAT'S INSIDE

- 10 exercises with space to write
- Full answer key on the last page
- US Letter, black and white, one page per section



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Name: _____

Date: _____

Remember

A right angle measures exactly 90° , an acute angle measures less than 90° , and an obtuse angle measures more than 90° but less than 180° . Triangles are sorted by their sides: equilateral (all three equal), isosceles (two equal) and scalene (all different).

1. Classify each angle as right, acute or obtuse.

90° · 45° · 120° · 89°

2. What is the name of a triangle with three equal sides? And with exactly two?

3. How many right angles does a rectangle have?

4. Two angles of a triangle measure 60° and 70° . What is the third?

5. Can a triangle have two right angles? Explain.

6. Name the angle formed by the hands of a clock at 3:00.

7. A triangle has sides of 5 in, 5 in and 8 in. What kind is it?



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8. Sort these angles from smallest to largest.

$100^\circ \cdot 30^\circ \cdot 90^\circ \cdot 175^\circ$

9. Every angle in an equilateral triangle is the same. How many degrees is each one?

10. Find one right angle and one acute angle somewhere in your classroom and write down what they are.



Angles and triangles

1. right; acute; obtuse; acute
2. Equilateral; isosceles.
3. Four.
4. $180 - 130 = 50^\circ$.
5. No. Two right angles already use up 180° , leaving nothing for the third angle.
6. A right angle, 90° .
7. Isosceles, because exactly two sides are equal.
8. 30° , 90° , 100° , 175° .
9. $180 \div 3 = 60^\circ$ each.
10. For example the corner of a desk is a right angle; the open lid of a laptop often makes an acute or obtuse angle.